

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 59-090353

(43)Date of publication of application : 24.05.1984

1)Int.Cl.

H01M 2/26

H01M 4/72

1)Application number : 57-199978

(71)Applicant : JAPAN STORAGE BATTERY CO LTD

2)Date of filing : 15.11.1982

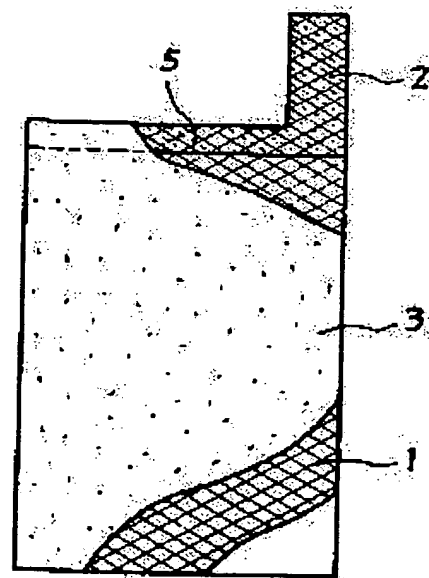
(72)Inventor : KAWAHARA TSUTOMU

4) BATTERY

7)Abstract:

PURPOSE: To increase mechanical strength and electrical performance by filling wax in a lead of a plate or a lead and the upper part of a grid.

CONSTITUTION: Wax 5 is filled in a lead 2 and the upper part of a grid 1 comprising an expanded metal net or a porous plate, and the wax 5 and the lead 2 are bonded together. The wax is selected depending on material of the lead 2 and the grid 1, and the kind of active material 3 and electrolyte. By filling only the lead, an open part, or net part in the upper part of the grid with the wax, without special thickness increase of wax filled part, decrease of electrical resistance and increase of mechanical strength achieved.



GAL STATUS

Date of request for examination]

Date of sending the examiner's decision of rejection]

Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

Date of final disposal for application]

Patent number]

Date of registration]

Number of appeal against examiner's decision of

ejection]


Date of requesting appeal against examiner's

ecision of rejection]

Date of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office

Your **competition** just filed
a **patent application.**



[Log Out](#)
[Order Form](#)
[Work Files](#)
[View Cart](#)

[ARCHIVED DELPHION](#)
[PRODUCTS](#)
[NEWS & EVENTS](#)
[MY ACCOUNT](#)
[IP SEARCH](#)
[HELP](#)

[Browse Codes](#)
[IP Listings](#)
[Prior Art](#)
[Derwent](#)
[Advanced](#)
[Boolean](#)
[Quick/Number](#)

The Delphion
Integrated
View

Other Views:
[INPADOC](#)

Title: **JP59090353A2: BATTERY**
 ► Want to see a more descriptive title highlighting what's new about this invention?

Country: **JP Japan**
 Kind: **A**

Inventor(s): **KAWAHARA TSUTOMU**

Applicant/Assignee: **JAPAN STORAGE BATTERY CO LTD**
[News, Profiles, Stocks and More about this company](#)



Issued/Filed Dates: **May 24, 1984 / Nov. 15, 1982**

Application Number: **JP1982000199978**

IPC Class: **H01M 2/26; H01M 4/72;**

Priority Number(s): **Nov. 15, 1982 JP1982000199978**

Abstract:

Purpose: To increase mechanical strength and electrical performance by filling wax in a lead of a plate or a lead and the upper part of a grid.

Constitution: Wax 5 is filled in a lead 2 and the upper part of a grid 1 comprising an expanded metal net or a porous plate, and the wax 5 and the lead 2 are bonded together. The wax is selected depending on material of the lead 2 and the grid 1, and the kind of active material 3 and electrolyte. By filling only the lead, an open part, or net part in the upper part of the grid with the wax, without special thickness increase of wax filled part, decrease of electrical resistance and increase of mechanical strength achieved.

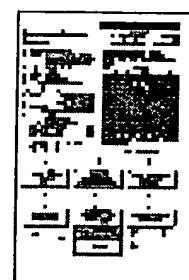
COPYRIGHT: (C)1984,JPO&Japio

► See a clear and precise summary of the whole patent, in understandable terms.

Family: [Show known family members](#)

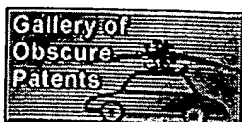
Other Abstract Info: none

Foreign References: No patents reference this one



[View Image](#)

1 page



[Nominate this](#)

[for the Gallery...](#)

[Subscribe](#) | [Privacy Policy](#) | [Terms & Conditions](#) | [FAQ](#) | [Site Map](#) | [Help](#) | [Contact Us](#)

© 1997 - 2002 Delphion Inc.